

Fig. 1a

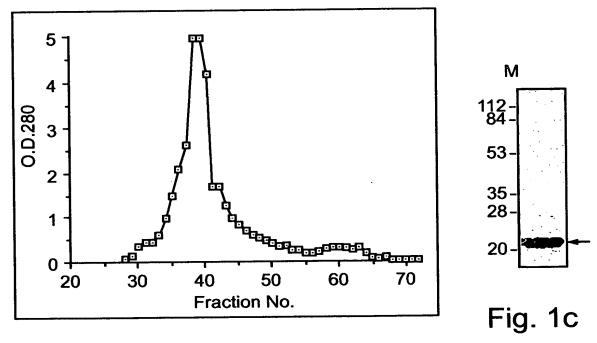


Fig. 1b

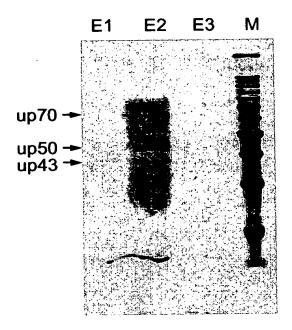


Fig. 2

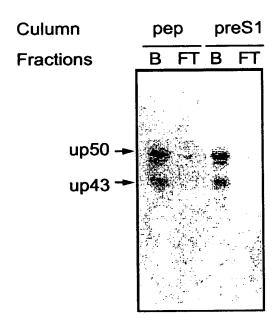


Fig. 3

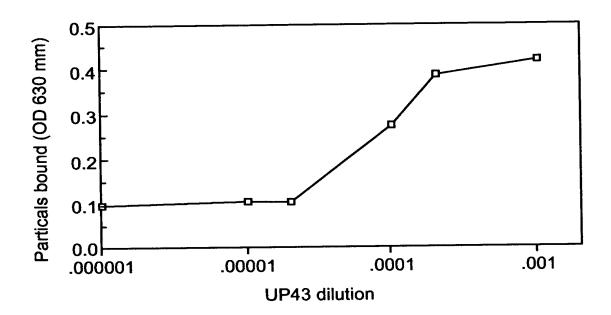
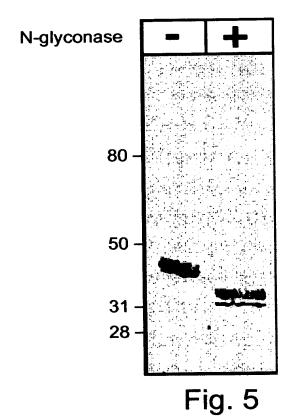


Fig. 4



	IVGPFSF	RTSSVLRLTI IV	MLTVSSIGTF	GPREHIVDLE	s1-5	human
AMLVLVKSL	FYLR	KSGNENGE				up43
AMLVLVKSLS	FYLRQTSPVS	RIKSGNENGE	TIYANTINTF	PSDIFQIQAT	s1-5	human
YMSIRS	×					up43
YMSIRSDRSV	RELPQSIVYK	CVCPVSNAMC	DPYILTPENR	FRCYPRNPCQ	s1-5	human
DEMCWNYHGG	ECETTNECRE	VRSRTCQDIN	SCMCPQGYQV	YQCVNEPGKF	s1-5	human
ECRTSSYLCQ	SDRINCEDID	CQCNQGYELS	QCYNILGSFI	ECDASNQCAQ	s1-5	human
ANNYTCVDIN	CQCSPGFQLA	RCVNTPGSFY	ECTIPPYCHQ	KRGEQCVDID	s1-5	human
FACQCPPGYQ	DQVCINLRGS	CTAGTHNCRA	EHNVCQDIDE	IQCAAGYEQS	s1-5	human
QRIPSNPSHR	FVIRRNPADP	GPEMQTGRNN	GFVASAAAVA	MATSGVLPGG	s1-5	human

Fig. 6

GOLGI APPARATUS PLASMA MEMBRANE

Fig. 7

APNYPTISRP LICRFGYQMD ESNQCVDVDE CATDSHQCNP TQICINMKGG YTCSCTDGYW LLEGQCLDID ECRYGYCQQL CANVPGSYSC TCNPGFTLNE DGRSCQDVNE CATENPCVQT CVNTYGSFIC RCDPGYELEE DGVHCSDMDE CSFSEFLCQH ECVNQPGTYF CSCPPGYILL DDNRSCQDIN ECEHRNHTCN LQQTCYNLQG GFKCIDPIRC EEPYLRISDN RCMCPAENPG CRDQPFTILY RDMDVVSGRS VPADIFQMQA TTRYPGAYYI FQIKSGNEGR EFYMRQTGPI MPGIKRILIV TILALCLPSP GNAQAQCTNG FDLDRQSGQC LDIDECRTIP EACRGDMMCV NONGGYLCHS RTNPVYRGPY SNPYSTPYSG PYPAAAPPLS SATLVMTRPI KGPREIQLDL EMITVNTVIN FRGSSVIRLR IYVSQYPF

Fig. 8

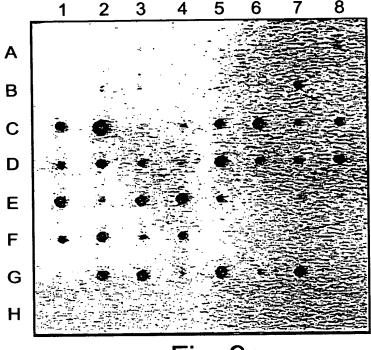


Fig. 9a

	1	2	3	4	5	6	7	8
A	whole brain	amygdala	caudate nucleus	cere- bellum	cerebral cortex	frontal lobe	hippo- campus	medulla- oblongata
В	occipital lobe	putamen	substantial nigra	temporal lobe	thalamus	sub- thalamic nucleus	spinal cord	
С	heart	aorta	skeletal muscle	colon	bladder	uterus	prostate	stomach
D	testis	ovary	pancreas	pituatary gland	adrenal gland	thyroid gland	salivary gland	mammary gland
E	kidney	liver	small- intestine	spleen	thymus	peripheral leukocyte	lymph node	bone marrow
F	appendix	lung	trachea	placenta				
G	fetal brain	fetal heart	fetal kidney	fetal liver	fetal spleen	fetal thymus	fetal lung	o
Н	yeast total RNA 100 ng	yeast cRNA 100 ng	E. Coli rRNA 100 ng	E. Coli DNA 100 ng	Paly (HA) 100 ng	human C DNA 100 ng	human DNA 100 ng	human DNA 500 ng

Fig. 9b

0 0

	250 LPGSFRCQCE VPGSYSCTCN TPGSFYCQCS	GYCQHRCVN GYCQQLCAN PPYCHQRCVN	ECVDIDECRY QCLDIDECRY QCVDIDECTI	CPDGYRKIGP CTDGYWLLEG CPPGYQKRGE	201 HNLPGSYQCT INMKGGYTCS INLRGSFACQ	UPH1 UP50 UP43
	200 LHDCRPSQDC SHQCNPTQIC THNCRADQVC	CVDVDECAQA CVDVDECATD CQDIDECTAG	TGYEPDDQDS FGYQMDESNQ AGYEQSEHNV	PVNTQPLP PTISRPLICR SNPSHRIQCA	151 HGEGPPPPVP RNPADPQRIP	UPH1 UP50 UP43
	150 NY QTGRNNFVIR	PAAAPPLSAP SAAAVAGPEM	YSGPY GVLPGGGFVA	WAASSMATS	101 AEGTSGATTG	UPH1 UP50 UP43
	100 DLGPYSNPYSTP NEQPQQETQP	LPRSAAVI.N HSRTNPVY.R LPKTAQIIVN	CINHYGGYLC CVNQNGGYLC	I PEACKGEMK I PEACRGDMM VPDACKGGMK	51 NCRDVNECLT	UPH1 UP50 UP43
	50 CTDGYTQTA QCLDIDECRT QCKDIDECDI	EEPDSYTE FDLDRQSG DGYEWDPVRQ	LLGSASPQDS GNAQAQCTNG EETITYTQCT	SLLLWALLLL TILALCLPSP TLALVKSQDT	1 MLPCASCLPG MPGIKRILTV MLKALFLTML	UPH1 UP50 UP43
•	*					

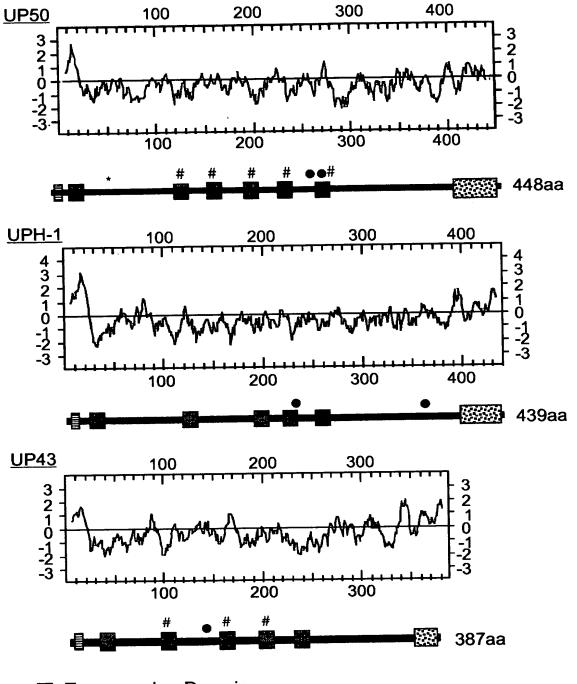
Fig. 10

300	350	400	450	500
QGYELHRDGF	RLCQDIDECE	CPASNPLCRE	RAGNSQGDFY	SSVLRLTVFV
PGYELEEDGV	RSCQDINECE	CPAENPGCRD	KSGNEGREFY	SSVIRLRIYV
QGYELSSDRL	RTCQDINECE	CPVSNAMCRE	KSGNENGEFY	SSVLRLTIIV
SYGTFLCRCH	PQGYQLL.AT	YIQVSENRCL	YPGAYNAFQI	TWNSLMSYRA
TYGSFICRCD	PPGYILLDDN	YLRISDNRCM	YPGAYYIFQI	TVNTVINFRG
ILGSFICQCN	PQGYQVVRS	YILTPENRCV	YANTINTFRI	TVSSIGTFRT
GAPCEQRCFN	NEPGRFSCHC	CVDTNRCVEP	DVFQIQATSV	REYVLDLEMV
ENPCVQTCVN	NQPGTYFCSC	CIDPIRCEEP	DIFQMQATTR	REIQLDLEMI
SNQCAQQCYN	NEPGKFSCMC	CYPRNPCQDP	DIFQIQATTI	REHIVDLEML
SCVDVNECDM	SSYLCQYRCV	TCVNFHGGYR	TITSEAERPA	LVLARPVTGP
SCQDVNECAT	SEFLCQHECV	TCYNLQGGFK	DVVSGRSVPA	LVMTRPIKGP
TCVDINECDA	SSYLCQYQCV	MCWNYHGGFR	SIRSDRSVPS	LVLVKSLSGP
251	301	351	401	451
PGFQLGPNNR	SCSDIDECSY	SGAHQWSEAQ	QPSSIVHRYM	IRQINNVSAM
PGFTLNEDGR	HCSDMDECSF	HRNHTCNLQQ	QPFTILYRDM	MRQTGPISAT
PGFQLAANNY	NCEDIDECRT	TTNECREDE	LPQSIVYKYM	LRQTSPVSAM
JPH1	UPH1	UPH1	UPH1	UPH1
JP50	UP50	UP50	UP50	UP50
JP43	UP43	UP43	UP43	UP43

Fig. 10 (Cont.)

501 GAYTF SQYPF GPFSF

> UPH1 UP50 UP43



Transmember Domain

- # Aspartic Acid and Aspargine Hydroxylation Site.
- Signal Peptide
- Cell Attachment Sequence Fig. 11
 Glycosylation Site